



LTSW 2002 PROGRAM

November 11-13, 2002

Napa Valley, California

Time Limit	Tentative Time	Order of Talk	Day	Session Name	Presenters
60 minutes	7:30 AM	0	Monday	Registration and Continental Breakfast	
				Session I - DOE Magnet Program Needs and Their Conductor Demands	CHAIR: Steve Gourlay (LBNL)
20 minutes	8:30 AM	1	Monday	Introduction to HEP Program Needs	D. Sutter (DOE-HEP)
20 minutes	8:50 AM	2	Monday	Accelerator Physics Requirements	TO BE ANNOUNCED
20 minutes	9:10 AM	3	Monday	Conductor Requirements for High Field Magnets	G. Sabbi (LBNL)
20 minutes	9:30 AM	4	Monday	Effective Filament Size Requirements for Accelerator Magnets	A. Zlobin (FNAL)
20 minutes	9:50 AM	5	Monday	React and Wind Magnet Technology - Program Plans and Special Conductor Requirements	R. Gupta (BNL)
20 minutes	10:10 AM	6	Monday	Discussions	
20 minutes	10:30 AM	7	Monday	BREAK	
20 minutes	10:50 AM	8	Monday	New Results from the ITER Model Coil Tests	J. Minervini (MIT-PSFC)
20 minutes	11:10 AM	9	Monday	Conductor Requirements for the Fusion Program	TO BE ANNOUNCED
10 minutes	11:30 AM	10	Monday	Protection and Stability Issues in Accelerator Dipoles	A. McInturff (LBNL)
10 minutes	11:40 AM	11	Monday	Protection and Stability Issues: Can we Handle 3000 A/mm ² ?	T. Collings (OSU-LASM)
10 minutes	11:50 AM	12	Monday	Conductor Needs for the Neutrino Factory/Muon Collider	A. Zeller (MSU-NSCL)
10 minutes	12:00 PM	13	Monday	Superconductor Requirements at NHMFL for a Next-Generation Hybrid and Other Applications	J. Miller (FSU-NHMFL)
20 minutes	12:10 PM	14	Monday	Discussions	
60 minutes	12:30 PM	15	Monday	WORKSHOP LUNCHEON	
				Session II - Nb ₃ Sn Conductor Fabricator's Response	CHAIR: David Larbalestier UW-ASC)
20 minutes	1:30 PM	16	Monday	J _c and D _{effective} : Where are we now, and What do we need to do?	R. Scanlan (LBNL)
20 minutes	1:50 PM	17	Monday	New Results for Nb ₃ Sn Rod in Tube and Jelly Roll Approaches	J. Parrell (OST)
20 minutes	2:10 PM	18	Monday	Issues for PIT Conductors	L. Motowidlo (Supercon)

20 minutes	2:30 PM	19	Monday	Discussions	
20 minutes	2:50 PM	20	Monday	BREAK	
10 minutes	3:10 PM	21	Monday	Fine Wire Results for Nb ₃ Sn Fabrication	B. Zeitlin (Supergenics)
10 minutes	3:20 PM	22	Monday	Rod Restack Requirements for Reduced D _{eff}	E. Gregory (Supergenics)
10 minutes	3:30 PM	23	Monday	Some Approaches to Lower Magnetization	T. Pyon (Outokumpu-AS)
10 minutes	3:40 PM	24	Monday	Nb ₃ Sn Conductor Fabrication Plans at Outokumpu Advanced Superconductors	H. Kanithi (Outokumpu-AS)
10 minutes	3:50 PM	25	Monday	The "Super-bronze" Approach to the Fabrication of High-performance Nb ₃ Sn Conductor	J. Hendricks (ACE)
10 minutes	4:00 PM	26	Monday	Alternative Nb ₃ Sn Wires and Cables Available from SSI	S. Pourrahi (SSI)
20 minutes	4:10 PM	27	Monday	Discussions	
				Poster Session	
4:30 - 6:00 PM			Monday	Grain Refinement in E-Beam Melted Nb by Simple Shear Deformation	T. Hartwig (Texas A&M)
				New Powder Size Sorting Technology to Remove All Particles Larger than Micron-Enabling Technology for PIT Nb ₃ Sn	P. McIntyre (Texas A&M)
				Enabling Technologies for Superconducting Billets in Large-Billet Fabrication of Internal-Tin Nb ₃ Sn Superconductor: Continuous Formation of Diffusion Barrier and Copper, and Extrusion of the Hole in the Subelement Billet	P. McIntyre (Texas A&M)
				PIT Processing of A15 Strand	X. Peng (OSU-LASM)
				Flux Jumping in Nb ₃ Sn - Influence of Heat Transfer Coefficient and Field Ramp-Rate	OSU
				Optimization of PIT Nb ₃ Sn Conductors for HEP	Supercon
				An Elemental Powder Approach for Nb ₃ Sn Superconductors	Supercon
				A Common Wire Defect Formation Pattern in Drawn Nb ₃ Sn Composites	A.R. Austen (Innovare)
				RECEPTION (CASH BAR) AND THEME BUFFET DINNER - TIME YET TO BE DETERMINED (PROBABLY 6:00-6:15 RECEPTION AND 7:00-7:15 DINNER)	
60 minutes	8:30 AM	0	Tuesday	Remaining payments for Registration and Continental Breakfast	
				Session III - Fundamental Nb ₃ Sn Issues	CHAIR: Ron Scanlan (LBNL)
20 minutes	9:30 AM	1	Tuesday	Microstructural Deconstruction of Nb ₃ Sn Conductors	P. Lee (UW-ASC)
20 minutes	9:50 AM	2	Tuesday	Flux Pinning Issues for Nb ₃ Sn	L. Cooley (BNL)
10 minutes	10:10 AM	3	Tuesday	Stress-Strain Behavior of High-J _c Conductors	J. Ekin (NIST)
10 minutes	10:20 AM	4	Tuesday	Tin Diffusion Effects in Variable Diameter Internal Sn Conductors	M. Suenaga (BNL)

10 minutes	10:30 AM	5	Tuesday	Bending Strain Behavior of Various Conductors	M. Jewell (UW-ASC)
20 minutes	10:40 AM	6	Tuesday	Discussions	
20 minutes	11:00 AM	7	Tuesday	BREAK	
				Session IV - Testing Issues: Critical Current, Magnetization, and Stability	CHAIR: Giorgio Ambrosio (FNAL)
20 minutes	11:20 AM	8	Tuesday	New Requirements for 3000 A/mm ² Nb ₃ Sn Conductors	D. Dietderich (LBNL)
20 minutes	11:40 AM	9	Tuesday	Transport and Magnetization Test Results from FNAL	E. Barzi (FNAL)
10 minutes	12:00 PM	10	Tuesday	Magnetization and Transport Evaluation of Nb ₃ Sn in Very High Fields	A. Godeke (UW-ASC)
20 minutes	12:10 PM	11	Tuesday	Discussions	
60 minutes	12:30 PM	12	Tuesday	WORKSHOP LUNCHEON	
				Session V - Relevance of Nb ₃ Al to HEP, Fusion, and NMR Magnets	CHAIR: Mas Suenaga (BNL)
20 minutes	1:30 PM	13	Tuesday	Progress in Developing a Nb ₃ Al Conductor: Precursor Fabrication, RHQ, Stabilization Issues	T. Collings (OSU-LASM)
20 minutes	1:50 PM	14	Tuesday	Progress and Plans for Nb ₃ Al outside the USA	P. Lee (UW-ASC)
10 minutes	2:10 PM	15	Tuesday	Hypertech Fabrication Facility: Capabilities and Plans for Supporting SBIR Projects	M. Tomsic (HyperTech)
20 minutes	2:20 PM	16	Tuesday	Discussions	
20 minutes	2:30 PM	17	Tuesday	BREAK	
				Session VI - Poster Session	
	2:50 - 3:50 PM	Tuesday		FEM Modeling of Extrusion and Drawing	OSU
				Ceramic Insulated Rutherford Cable	M. Tomsic (HyperTech)
				Final Stage Stabilization (Protection) of Rutherford Cables	OSU
				Advanced Drawing Processes for SC Composite Strand	M. Tomsic (HyperTech)
				Fabrication of Bi-2212 Using Hot Extrusion Techniques	OST and Alchemet
				Large Quantity Production Cost Estimate for Nb ₃ Al	
				Jellyroll Composite Wire	A. R. Austen (Innovare)
60 minutes	8:00 AM	0	Wednesday	Continental Breakfast	
				Session VII - Wrap-Up Session	CHAIR: Bruce Strauss (DOE-HEP)
90 minutes	9:00 AM	1	Wednesday		
20 minutes	10:30 AM	2	Wednesday	BREAK	
70 minutes	10:50 AM	3	Wednesday		
	12:00 PM	4	Wednesday	Workshop Ends	